

Infrared Temperature Measurement — NCIT Plus Series

NCIT Plus Monitor

- REN01001** 1/8 DIN Panel Meter 110/220VAC
w/ 5 Vdc alarm outputs
- REN01003** 1/8 DIN Panel Meter 110/220VAC
with optional 3A relays for alarm outputs
- REN01002** Light duty aluminum mounting bracket to allow
for sub-panel mounting

NCIT Plus Standard Sensing Heads

(includes mounting bracket and nut)

- REN01101** Standard focus infrared sensing head, 35:1 optics
- REN01102** Standard – close focus infrared sensing head,
30:1 optics
- REN01120** NIST/DKD calibration certificate (also for
water cooled) **Must be ordered with unit.**

With Water Cooled Housing and Lens Air Purge Collar

- REN01110** Standard focus infrared sensing head
- REN01111** Standard – close focus infrared sensing head

NCIT Plus Standard with Laser Sight Sensing Heads

(includes an adjustable mounting bracket and nut,
13 ft. (4m) cable for between the sensor and the
laser switch box, and 26 ft. (8m) cable to connect
the laser switch box to the NCIT Plus Monitor)

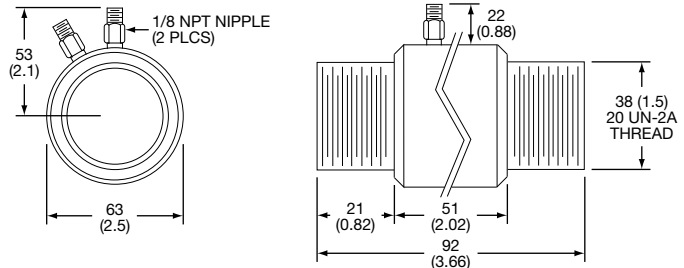
- REN01103** Standard focus infrared sensing head, 50:1 optics
- REN01104** Standard – close focus infrared sensing head,
45:1 optics
- REN01121** NIST/DKD calibration certificate (also for
water cooled) **Must be ordered with unit.**

With Water Cooled Housing and Lens Air Purge Collar

- REN01112** Standard focus infrared sensing head
- REN01113** Standard – close focus infrared sensing head

Air/Water Cooled Sensing Head

The Air/Water-Cooled Housing option allows the laser or standard sensor to be used in ambient temperatures **up to 250°F (121°C) with air cooling**, or **350°F (177°C) with water cooling**. It is supplied with two 1/8" NPT brass fittings.



Air flow at 77°F (25°C) should be **3 to 5 cfm** (1.4 to 2.4 liters/sec) with a pressure drop across the housing of 2 to 5 PSIG (0.14 to 0.35 kg/cm²). Water flow should be approximately **0.5 gallons (2 liters) per minute**; water temperature should be 50 to 80°F (10 to 27°C) for efficient cooling.

All units ordered with the Air/Water-Cooled Housing include the Air Purge Collar to avoid condensation and lens damage.



Note: The laser-equipped standard sensing head is 125 mm (4.92") long. The laser shuts off automatically at 120°F (50°C).

Standard / Laser Sensing Heads

All Standard sensors are supplied with a fixed bracket and a mounting nut. Alternatively, the sensor may be mounted through a hole, on a customer-supplied bracket, with the pipe adapter, or with other accessories. Avoid installing the sensor cable in noisy electrical environments. In this environment, it is recommended to install the cable in conduit. A conduit adapter accessory is available for this purpose.



Note: The laser-equipped standard sensing head is 125 mm (4.92") long.

